

**PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY (AUTONOMOUS), KANURU,
VIJAYAWADA.**

AERONAUTICAL ENGINEERING DEPARTMENT

DATA FOR "HOUSE JOURNAL" (15 FEBRUARY 2016 to 15 APRIL 2016)

Staff Achievements

1. C. S. Abdul Kalam Assistant Professor, Dept. of AE, had participated in National Conference on Entrepreneurship 2.0 organized by Dept. of MBA, PVPSIT & sponsored by ICSSR from 29th to 30th March, 2016.
2. Ashutosh Shukla Assistant Professor, Dept. of AE, had participated in National Conference on Entrepreneurship 2.0 organized by Dept. of MBA, PVPSIT & sponsored by ICSSR from 29th to 30th March, 2016.
3. T. J. Prasanna Kumar Assistant Professor, Dept. of AE, had participated in National Conference on Entrepreneurship 2.0 organized by Dept. of MBA, PVPSIT & sponsored by ICSSR from 29th to 30th March, 2016.
4. T J. Prasanna Kumar had registered as a Mentor for NPTEL Open online course 'Introduction to Airplane Performance' organized by Department of Aerospace Engg., IIT Kanpur from 18th JAN 2016 to 24th April 2016.
5. T J. Prasanna Kumar has participated in IIT Bombay X course "Educational Technology for Engineering Teachers" organized by National Mission on Education through Information and Communication Technology (NME-ICT), Ministry of Human Resource Development (MHRD) from 7th January 2016 to 10th March 2016.
6. M. Somaiah Chowdary, Assistant Professor, Dept. of AE, had participated in One Day Faculty Development Programme on Vibration Analysis Using MATLAB organized by Department of Mechanical Engineering, PVPSIT on 26.03.2016.
7. Mr. Mallikharjuna Kishan I, Assistant Professor, Dept. of AE, had participated in One Week Short term Course (STC) on Soft Computing Techniques Using MATLAB from 15th to 19th February 2016 organized by Knowledge Centre, Dept. of Computer Science & Engineering, PVPSIT.

Student Achievements

1. Mr. Nelaturi Akhil of B.Tech passed out batch got qualified and secured All India Rank of 250 in GATE 2016.
2. Mr. Abhilash Sai Kiran of B.Tech 2014 passed out got All India Rank of 107 in GATE 2016 and got admission **IIT Bombay**.
3. Ms. Boda Pravallika of B.Tech 2014 passed out placed in **Indigo Airlines** in April 2016.
4. Ms. J. Radhika of B.Tech 2013 passed out got selected in Andhra Bank as **Probationary Officer** in the month of March through IBPS exams.

Industrial Visits:

S.No	Year of Study	Name of the Industry Visited	Date of visit	Place
NIL				

Head of the Department

AERONAUTICAL ENGINEERING DEPARTMENT

DATA FOR "HOUSE JOURNAL" (JULY to NOVEMBER, 2014)

Staff Achievements

1. Sagar P. R has participated in the Short Term Training Programme (STTP) on 'Computational Dynamics' organized by IIT Madras from 1 to 5 September, 2014 sponsored by AICTE.
2. Sagar P.R has attended a virtual conference hosted by Discovery Education for teachers Education Technology resources on Oct, 25, 2014 conducted by 'Discovery Education Streamathon'.
3. Sagar P. R has participated and won **Best prize** in PHHL Essay Competition titled 'Impact of Economic crises-In Civil Aviation Industry in India', Conducted by Hindustan Aeronautics limited, Bangalore on behalf of the Aeronautical Society of India(AeSI) on 16th September, 2014.
4. T. J. Prasanna Kumar has participated in International Conference on Electrical, Electronics engineering trends, Communications, Optimization And Sciences (EEECOS) conducted at Dhanekula College of Engineering and Technology from 11-12 October, 2014.
5. T. J. Prasanna Kumar has participated in One week Training Classes on "Research Methodologies" conducted at JNTU Ananthapuram organized by R&D JNTUA from 03-09 November, 2014.

International Journal

1. Sagar P. R, Dr. C. Senthil Kumar, N. Muthu Swamy, "Testing of ONERA model" published in International Journal of Engineering & Advanced Technology, (IJEAT) Vol. 4, 2014, Issue:2, December 2014.
2. T. J. Prasanna Kumar, P. Phani Prasanthi, G. Srivalli, D. Kishore, B. Pravallika "Transient Thermal Analysis on Reentry Vehicle Nose cone" published in International Journal of Discovery, Winter 2014.
3. T. J. Prasanna Kumar, P. Phani Prasanthi, , G. Siva Goparaju, V. Mani Prakash, R. Sunitha Devi "Characterization of Solid Propellants" published in International Journal of Discovery, Winter 2014.

International Conference

1. T. J. Prasanna Kumar, P. Phani Prasanthi, G. Srivalli, D. Kishore, B. Pravallika "Transient Thermal Analysis on Reentry Vehicle Nose cone" published in International Conference on Electrical, Electronics Engineering Trends, Communication, Optimization And Sciences (EEECOS-2014), 11-13 October, 2014 at Dhanekula College of Engineering and Technology.

2. T. J. Prasanna Kumar, P. Phani Prasanthi, G. Siva Goparaju, V. Mani Prakash, R. Sunitha Devi “Characterization of Solid Propellants” published in International Conference on Electrical, Electronics Engineering Trends, Communication, Optimization And Sciences (EEECOS-2014), 11-13 October, 2014 at Dhanekula College of Engineering and Technology.

Student Achievements

1. S. Sathwick, P. Daniel, K. Balaji, A. Koteswara Rao, Ch. Chaitanya, P. Vijay kumar of IV B.Tech has attended Three day Workshop on ‘Computational Aerodynamics’ conducted at M. S. Ramaiah University, Bangalore from 11-13 September, 2014.
2. D. Kishore, B. Pravallika of IV B.Tech attended and participated in International Conference on Electrical, Electronics Engineering Trends, Communication, Optimization And Sciences (EEECOS-2014), 11-13 October, 2014 at Dhanekula College of Engineering and Technology.
3. G. Siva Goparaju, V. Mani Prakash, R. Sunitha Devi of IV B.Tech has participated in International Conference on Electrical, Electronics Engineering Trends, Communication, Optimization And Sciences (EEECOS-2014), 11-13 October, 2014 at Dhanekula College of Engineering and Technology.
4. T. Charan Kumar, S. Durga Prasad of II B.Tech has participated in Technical Quiz contest on Engineers day and **won 1st prize** at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15th September, 2014.
5. R. Dharma Teja, P. Sri Harsha of II B.Tech has participated in Technical Quiz contest on Engineers day and **won 2nd prize** at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15th September, 2014.
6. T. Charan Kumar, of II B.Tech has participated in Aero-Design Competition on Engineers day and **won 1st prize** at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15th September, 2014.
7. L. Kartheek, of III B.Tech has participated in Aero-Design Competition on Engineers day and **won 2nd prize** at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15th September, 2014.
8. B. Sai Ram of III B.Tech has participated in Paper Presentation contest on Engineers day and **won 1st prize** at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15th September, 2014.
9. Ch. Ranjith of III B.Tech has participated in Paper Presentation contest on Engineers day and **won 2nd prize** at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15th September, 2014.
10. A. Sai Prabhu, Ch. Ranjith of III B.Tech has participated in Technical Quiz contest on Engineers day and **won 1st & 2nd prize** at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15th September, 2014.
11. M.D.N. Swami, L. Karteek, D.V.S.Saketh, P. Sai Ram, B. Hemanth, N. Akhil, Ch. Ranjith of III B.Tech has participated in Short Film Contest title: “Desh Ka Basra” on Engineers day Celebrations and **won 2nd prize** at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15th September, 2014.

12. K. Lokesh and V. Tulasi Ram got GATE ranks and got M. Tech admission in Indian Institute of Technology, Kanpur in July, 2014.
13. T. Vamsi Krishna, M. Dinesh qualified in entrance conducted by BITS Ranchi and got M. Tech in Rocketry & Space Propulsion for the academic year 2014-15.

Industrial Visits:

S.No	Year of Study	Name of the Industry Visited	Date of visit	Place
1	IV B.Tech I semester	Airport, Gannavaram, Vijayawada.	10.10.2014	Vijayawada

Dr. K. RAVI

Guest Lectures/Workshops/FDP's/Seminars/Training Programs:

2012-13

1. Mr. T. J. Prasanna Kumar attended for 2 week ISTE workshop on Engineering Thermodynamics organized by Department of Mechanical Engineering, IIT Bombay from 11th to 21st December, 2012.
2. Mr. T. J. Prasanna Kumar attended for 2 Day ISTE workshop on Aakash for education organized by Department of Information Technology, IIT Bombay from 10th to 11th November 2012.

2013-14

- i. Ms.Y. Swathi, Mr. T. J. Prasanna kumar, Mr. Krishna kumar parmar, Mr. P. Sandeep, Mr. R.V. Bhargava Ramana, Mr. Ashutosh Shukla has participated in a 2-week faculty development program on “Current Trends in Aircraft Maintenance & Future Enhancements” from 17th -29th June 2013 organized by the department of Mechanical & Aeronautical Engineering, sponsored by AICTE, PVP Siddhartha Institute of Technology.
- ii. Mr. T. J. Prasanna Kumar has participated in the National Seminar on “Futuristic Trends of Nano composites and Their Fabrication” at R.V.R. & J.C College of Engineering, Guntur from 6th -7th September, 2013.
- iii. Mr. T. J Prasanna Kumar has participated in a 1-Week National Workshop on MATLAB based workshop on Computational Research Techniques in Deign and Thermal Engineering organized by the Department of Mechanical Engineering under TEQIP-II at NIT Warangal, in Aug 2013.
- iv. Mr. T. J. Prasanna kumar, Mr. P. Sandeep, Mr. Ashutosh Shukla, Mr. Sagar P.R has participated in a 2-Day DST sponsored National seminar on “Current Trends in Advanced Manufacturing Processes” at PVP Siddhartha Institute of Technology from 22nd -23rd November, 2013.
- v. P. R. Sagar & K. Vijaya Krishna “Robust Controller for Aircraft yaw” International Conference on Electrical Electronics and Computer Science (EECS) on 9th February, 2014, at Tirupati.

2014-15

- vi. Mr. Sagar P.R and Mr. Ashutosh Shukla participated in 2-Week Work shop on Fluid Mechanics conducted by IIT Kharagpur, at PVPSIT as a Zonal centre from 17-30th June 2014
- vii. Guest lecture on Aircraft Engines conducted at PVPSIT organized by department of aeronautical Engineering on 23-06-2014. Resource person: Sri. Raja Mohan, Manager from Aero Norway AS, Gulf.
- viii. 2 Day Training Programme on “**MAT Lab Programming & Simulation**” organized by Department of Aeronautical engineering by T. J. Prasanna Kumar faculty of PVPSIT, kanuru, Vijayawada, from 21st to 28th August 2014.
- ix. 2 Day Training Programme on “**FLOTRAN-Computational Fluid Dynamic Techniques**,” organized by Department of Aeronautical engineering by T. J. Prasanna Kumar faculty of PVPSIT, kanuru, Vijayawada, from 3rd to 10th July 2014.

- x. Mr. T. J. Prasanna Kumar, Assistant Professor in Dept. of Aeronautical Engineering attended one week training programme on '**Research Methodologies**', organized by JNTU Ananthapuram from 03rd -09th November, 2014.
- xi. Mr. Sagar P.R Assistant Professor in Dept. of Aeronautical Engineering attended training programme on **Computational Dynamics** conducted at IIT Madras from 20th to 22nd September 2014.

2015-16

- xii. Mr. T. J. Prasanna Kumar, Mr. M. Somaiah Chowdary & Mr. V. Mallikharjun Kishan I, Assistant Professors in Dept. Of Aeronautical Engineering attended 1 Week Faculty Development Programme on Advanced Manufacturing Methods by Prof. Sunil Jassal & Prof. P.K. Rao, NITTR, Chandigarh from 12th OCT -16th OCT, 2015 conducted by Dept. Of Mechanical Engineering, PVPSIT.

INTERNATIONAL JOURNALS

- i. **T. J. Prasanna Kumar**, S. Narendar, Gopala Krishnan "Thermal Vibrational Analysis on mono layer Graphene embedded in elastic medium based on non-local continuum mechanics", Elsevier Publications June 2013, Composite Structures 100 (2013) 332–342
- ii. **T. J. Prasanna Kumar**, S. Narendar, Gopala Krishnan "Thermal Vibrational Analysis on Double layer Graphene embedded in elastic medium based on non-local continuum mechanics", International Journal for nano dimensions, Int. J.Nano Dimens. 4(1): 29-49, ISSN: 2008-8868 Summer 2013.
- iii. K. Vijay Krishna, **Sagar P.R** " Robust Controller for Yaw International Journal for Electrical & Electronics Engineering Feb 2014- page 11-17
- iv. T. J. Prasanna Kumar, P. Phani Prasanthi, K. Siva Gopa Raju, V.Mani Prakash, R. Sunitha 'Performance Characterization Of Solid Propellants' Published in Discovery Int. Daily Journal, ISSN:2278-5469, Discovery, 2015, 29(108), 44-62.
- v. T. J. Prasanna Kumar, A. Srivalli, P. Phani Prasanthi, B. Pravallika, D. Kishore babu 'Transient Thermal Analysis On Re-Entry Vehicle Nose Cone With TPS Materials' accepted on October 12 2014. (Proceedings to Published in Int. Journal of Discovery)
- vi. P. R. Sagar, Dr. C. Senthil Kumar "Testing of ONERA Model" International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 22498958(Online) Vol.4, Issue 2, Dec 2014, 34-36.

INTERNATIONAL & NATIONAL CONFERENCE:

- i. P. R. Sagar & K. Vijaya Krishna “Robust Controller for Aircraft yaw” International Conference on Electrical Electronics and Computer Science (EECS) on 9th February, 2014, at Tirupati.
- ii. T. J. Prasanna Kumar, P. Phani Prasanthi, K. Siva Gopa Raju, V.Mani Prakash, R. Sunitha, M. Vijay, ‘**Performance Characterization Of Solid Propellants**’ presented in EEECOS International conference conducted at Dhanekula Engg. College, Vijayawada, from 11-12 Oct 2014.
- iii. T. J. Prasanna Kumar, A. Srivalli, P. Phani Prasanthi, B. Pravallika, D. Kishore babu ‘**Transient Thermal Analysis On Re-Entry Vehicle Nose Cone With TPS Materials**’ presented in EEECOS International conference conducted at Dhanekula Engg. College, Vijayawada, from 11-12 Oct 2014. (Proceedings to Published in Int. Journal of Discovery)

PAPER PRESENTATION

- i. Kudipudi Balaji, T. J. Prasanna Kumar, “MPD Thrusters an Advanced Propulsion Technology”, JNTU University, Vijayanagaram, on 9th March 2014.

INDUSTRIAL VISITS

- i. Industrial Visit for II & III Year B. Tech Students to Hindustan Aeronautics Limited, Rotary Wing Division, Bangalore. from February (19 – 25th , 2015)
- ii. Industrial Visit for IV year B. Tech Students to Airport Gannavaram, VIJ, 10-09-2014.
- iii. Industrial Visit for II & III Year B. Tech Students to Air Show, AERO INDIA 2015, Air force Station, Yelhanka, from February (23rd , 2015)

Citations:

Thermal vibration analysis of monolayer graphene embedded in elastic medium based on nonlocal continuum mechanics Prasanna Kumar, T.J., Narendar, S., Gopalakrishnan, S. Composite Structures, , Elsevier Journal, volume 100, issue , year 2013, pp. 332 - 342

2013-14

Numerical study of the effect of shear in-plane load on the vibration analysis of graphene sheet embedded in an elastic medium

Mohammadi, M., Farajpour, A., Goodarzi, M., Shehni Nezhad Pour, H.
Computational Materials Science, Elsevier Journal
volume 82, issue , year 2014, pp. 510 – 520

Nonlinear bending analysis of orthotropic nanoscale plates in an elastic matrix based on nonlocal continuum mechanics

Golmakani, M.E., Rezatalab, J.
Composite Structures, Elsevier Journal
volume 111, issue 1, year 2014, pp. 85 – 97

2015-16

Nonlinear resonant behaviors of graphene sheet affixed on an elastic medium considering scale and thermal effects

Li, H.B., Li, Y.D., Wang, X., Fang, C.Q.

Physica E: Low-dimensional Systems and Nanostructures, Elsevier Journal
volume 72, issue , year 2015, pp. 178 - 188

Temperature effects on the vibration and stability behavior of multi-layered graphene sheets embedded in an elastic medium

Karličić, D., Cajić, M., Kozić, P., Pavlović, I.

Composite Structures, Elsevier Journal
volume 131, issue , year 2015, pp. 672 - 681